

Film Cross Reference

by Chuck McKern

Every month I get questions concerning what films to shoot, what films are fine grained, what films are good for portraits, etc.? So I put together these charts for consumer and professional films that compare their basic attributes.

Why can't I just say X is the best film for landscapes? Because everyone's taste is different. Some people consider Astia to be a Saturated film, others Velvia. Everyone's taste differs. But you can use these charts as a jumping off point for experimentation. Good shooting!

Kodak Consumer Films	Fuji Consumer Films
Kodak Professional Films	Fuji Professional Films

Consumer Films

Brand	Name	Des	ISO/DIN	Type	Formats	Color Balance	Grain	Sharpness	Notes
Kodak	Gold	GA	100/21	Color Neg	35mm	Daylight	Very Fine	Very High	excellent for stills in bright light
	Gold	GB	200/24	Color Neg	35mm	Daylight	Very Fine	Very High	similar to Gold 100 with more sensitivity for varying light conditions
	Gold Max	GC	400/27	Color Neg	35mm	Daylight	Fine	High	great combination of brilliant color saturation and accurate color reproduction
	Gold Max	GT	800/30	Color Neg	35mm	Daylight	Fine	High	produces consistently bright, vibrant colors in a variety of light conditions
	Royal Gold	RA	100/21	Color Neg	35mm	Daylight	Micro Fine	Extremely High	Recently discontinued- very rich color and fine detail. For bright light.
	Royal Gold	RB	200/24	Color Neg	35mm	Daylight	Very Fine	Extremely High	Rich color and fine detail, great for varying light conditions and hazy sun.
	Royal Gold	RC	400/27	Color Neg	35mm	Daylight	Very Fine	Very High	great for bright-cloudy, indoor, low-light
	Royal Gold	RF	1000/31	Color Neg	35mm	Daylight	Moderate	High	low-light, indoor, fast action
	Advantix	APS100	100/21	Color Neg	APS	Daylight	Very Fine	Very High	excellent for stills in bright light
	Advantix	APS200	200/24	Color Neg	APS	Daylight	Very Fine	Very High	multi-purpose. Good indoors and out, varying light
	Advantix	APS400	400/27	Color Neg	APS	Daylight	Fine	High	low-light and action, extended flash range
	Black & White +	BWC	400/27	B&W Neg	35mm	Panchromatic	Very Fine	Very High	C-41 process black & white. wide exposure latitude. Versatile all around use.
	Advantix B&W		400/27	B&W Neg	APS	Panchromatic	Fine	High	C-41 process black & white. Versatile all around use.
	EliteChrome 100	EB	100/21	Color Slide	35mm	Daylight	Extremely Fine	Extremely High	Rich vibrant color with pleasing flesh tones.
	EliteChrome Extra Color	EBX	100/21	Color Slide	35mm	Daylight	Extremely Fine	Extremely High	especially designed for nature and scenic photography with bold dramatic colors
	EliteChrome 200	ED	200/24	Color Slide	35mm	Daylight	Extremely Fine	Extremely High	enhanced color with natural skin tones
	EliteChrome 400	EL	400/27	Color Slide	35mm	Daylight	Fine	High	rich, vibrant color in dim light
	EliteChrome 160T	ET	160/23	Color Slide	35mm	Tungsten	Very Fine	High	well-suited for interiors illuminated with tungsten lights. Reproduction of artwork or photographs
	Kodachrome 25	KM	25	Color Slide	35mm	Daylight	Extremely Fine	Extremely High	exceptional results close-up and in still-life applications
	Kodachrome 64	KR	64/19	Color Slide	35mm	Daylight	Extremely Fine	Extremely High	excellent general use- outdoor, travel and nature
	Kodachrome 200	KL	200/24	Color Slide	35mm	Daylight	Fine	Extremely High	well suited for low light and action shots
	Plus-x Pan (see pro films)	PX							
	Tri-x Pan (see pro films)	TX							
Fuji	Superia 100	CN	100/21	Color Neg	35mm,120	Daylight	Very Fine	Very High	vivid color and natural skin tones. Bright light
	Superia 200	CA	200/24	Color Neg	35mm,110	Daylight	Very Fine	Very High	vivid color and natural skin tones. hazy sun and varying light conditions
	Superia X-tra 400	CH	400/27	Color Neg	35mm,120	Daylight	Fine	High	natural skin tone. Low light and actions topping, extended flash range
	Superia 1600	CU	1600/23	Color Neg	35mm	Daylight	Fine	High	especially designed for low light scenes and action stopping.
	Superia X-tra 800	CZ	800/30	Color Neg	35mm	Daylight	Fine	High	well suited for outdoor, flash, low-light and action photography.
	Superia Reala	CS	100/21	Color Neg	35mm,120,220	Daylight	Extremely Fine	Extremely High	especially designed for big enlargements, natural color reproduction
	Nexia 100	DN	100/21	Color Neg	APS	Daylight	Very Fine	Very High	natural and vivid color reproduction, very good for portraits and flowers
	Nexia 200	DA	200/24	Color Neg	APS	Daylight	Very Fine	Very High	general use, excellent color reproduction
	Nexia 400	DH	400/27	Color Neg	APS	Daylight	Fine	High	can be used under normal and low light. stop action and extended flash range.
	Sensia II 100	RA	100/21	Color Slide	35mm	Daylight	Extremely Fine	Very High	beautiful skin tone, natural color reproduction, excellent for general use
	Sensia II 200	RM	200/24	Color Slide	35mm	Daylight	Very Fine	Very High	brilliant color reproduction, well suited for indoor and outdoor applications
	Sensia II 400	RH	400/27	Color Slide	35mm	Daylight	Very Fine	High	brilliant color reproduction, well suited for low light and action

Professional Films

Brand	Name	Designation	ISO/DIN	Type	Formats	Color Balance	Grain	Sharpness	Storage (deg F)	Notes
Kodak	Portra 100T	100T	100/21	Color Neg	135,120,4x5,8x10	Tungsten	Extremely Fine	Very High	70 or lower	outstanding color accuracy under tungsten light.long exposure has minimal effect to color balance. Can be used for advertising, architecture, commercial, industrial, and reproduction of artwork.
	Portra 160 NC	160NC	160/23	Color Neg	135,120,220,4x5	Daylight	Extremely Fine	Very High	70 or lower	natural color, smooth natural flesh tones
	Portra 160 VC	160VC	160/23	Color Neg	135,120,220,,4x5	Daylight	Extremely Fine	Very High	70 or lower	vivid color, rich enhanced colors
	Portra 400 NC	400NC	400/27	Color Neg	135,120,220,4x5	Daylight	Very Fine	Very High	70 or lower	natural color, smooth natural flesh tones in low light or with on camera flash
	Portra 400 VC	400VC	400/27	Color Neg	135,120,220,4x5	Daylight	Very Fine	Very High	70 or lower	vivid colors, enhanced colors in low light or with on camera flash
	Portra 800	800	800/30	Color Neg	135,120,220,	Daylight	Fine	High	70 or lower	highest film speed with neutral flash tone, tight grain, medium color saturation

Supra 100	SUPRA100	100/21	Color Neg	135	Daylight	Extremely Fine	Very High	70 or lower	excellent for fashion, landscape, nature,product,lifestyle and medical photography
Supra 400	SUPRA400	400/27	Color Neg	135	Daylight	Fine	High	70 or lower	fashion, wildlife, sports,news,lifestyle and product photography. Can be pushed one stop
Supra 800	SUPRA800	800/30	Color Neg	135	Daylight	Fine	High	70 or lower	sports action, news, runway fashion, can be pushed two stops
Plus-x Pan/ Professional	PX/PXP	125/22	B&W Neg	135,120,220,4x5,5x7,8x10	Panchromatic	Extremely Fine	Very High	75 or lower	wide exposure latitude, has retouching surface on emulsion side
Portra 400BW	Portra400BW	400/27	B&W Neg	135,120,220	Panchromatic	Extremely Fine	Very High	70 or lower	process C-41. excellent for portrait, wedding, commercial photography. Wide exposure latitude
T400CN	T400CN	400/27	B&W Neg	135,120,220,4x5	Panchromatic	Extremely Fine	Very High	70 or lower	process C-41. Good for most photographic applications. Wide exposure latitude. Can be pushed to EI 3200
Technical Pan	TP	16-320/26 based on application	B&W Neg	135,120,4x5,8x10	Panchromatic	MicroFine	Extremely High	75 or lower	unusually versatile and suitable for many applications. Finest grain black and white pictorial. Recommend Technidol Developer
T-Max 100	TMX	100/21	B&W Neg	135,120,4x5,5x7,8x10,11x14	Panchromatic	Extremely Fine	Extremely High	75 or lower	General indoor and outdoor photography. Especially useful for detailed subjects with maximum image quality. Can be developed into slide with Direct Positive Developing kit
T-Max 400	TMY	400/27	B&W Neg	135,120,4x5,5x7,8x10,	Panchromatic	Extremely Fine	Very High	75 or lower	especially useful with dim lighted subjects or fast action or extending flash distance
T-Max P3200	TMZ	400/27-25,000/45 based on application	B&W Neg	135	Panchromatic	Varies	Varies	75 or lower	multi-speed. finer grain than other fast black and white film. Dim light without flash. Hand holding telephoto lenses with fast action, indoor/night sports, available light, and surveillance applications.
Tri-x Pan/ Professional	TX/TXP	320/26	B&W Neg	135,120,220,4x5,5x7,8x10	Panchromatic	Fine	High	75 or lower	wide exposure latitude, retouching surfaces on emulsion and base side
Verichrome Pan	VP	125/22	B&W Neg	120	Panchromatic	Extremely Fine	Very High	75 or lower	Wide exposure latitude, similar to Plus-x but without retouching surfaces
Kodachrome 64 Professional	PKR	64/19	Color Slide	135	Daylight	Extremely Fine	Extremely High	55 or lower	advertising, medical, editorial, travel, and nature photography
Ektachrome 100 Plus	EPP	100/21	Color Slide	135,120,220,4x5,8x10	Daylight	Extremely Fine	Extremely High	55 or lower	high color saturation and dependable neutrals combined with pleasing skin tones.fashion, advertising and industrial work
Ektachrome 64	EPR	64/19	Color Slide	135,120,220,4x5,8x10	Daylight	Very Fine	Very High	55 or lower	rich neutral color, soft highlight contrast, ideal for food, fashion and product
Ektachrome 64T	EPY	64/19	Color Slide	135,120,4x5,5x7,8x10	Tungsten	Very Fine	Very High	55 or lower	excellent color reproduction, for products, interiors, titles and artwork
Ektachrome 100 Professional	EPN	100/21	Color Slide	135,120,220,4x5,8x10	Daylight	Very Fine	Very High	55 or lower	natural color rendition, designed to meet the demands of commercial photographers
Ektachrome E100VS	E100VS	100/21	Color Slide	135,120,220,4x5,8x10	Daylight	Very Fine	Very High	55 or lower	vivid saturated color while maintaining neutral gray scale
Ektachrome E100S	E100S	100/21	Color Slide	135,120,220,4X5,8X10	Daylight	Extremely Fine	Very High	55 or lower	excellent neutral color rendition and natural skin tone, enhanced color saturation, advertising, product, fashion, industrial and nature. Can be pushed two stops
Ektachrome E100SW	E100SW	100/21	Color Slide	135,120,220,4x5,8x10	Daylight	Extremely Fine	Very High	55 or lower	warm saturated colors well suited for locations with unpredictable cool or overcast lighting conditions. Editorial, sports, travel, advertising, industrial. Can be pushed two stops
Ektachrome E200	E200	200/24	Color Slide	135,120,220	Daylight	Extremely Fine	Very High	55 or lower	moderate contrast, excellent color, outstanding push performance to EI 1000
Ektachrome 400x	EPL	400/27	Color Slide	135,120	Daylight	Fine	High	55 or lower	warm color balance with bright bold saturated colors,photojournalism or general outdoor photography under variable or low light
Ektachrome 320T	EPJ	320/26	Color Slide	135	Tungsten	Fine	High	55 or lower	motion picture or television stills, fashion, glamour, editorial, and theatre. Features bold saturated colors.
Ektachrome P1600	EPH	1600/33	Color Slide	135	Daylight	Fine	High	55 or lower	for low light level photography, action or sports, photojournalism. feature bold saturated colors.
Fuji	64 T Type II	RTPII	Color Slide	135,120,4x5,5x7, 8x10,11x14	Tungsten	Extremely Fine	Very High	59 or lower	high saturation, faithful color reproduction. Suited for product, interior, and reproductions of illustrations and paintings
Astia 100	RAP	100/21	Color Slide	135,120,220,4x5,8x10,11x14	Daylight	Ultra Fine	Extremely High	59 or lower	beautiful skin tones, natural color reproduction, smooth textures. Well suited for fashion.
Provia 100F	RDPIII	100/21	Color Slide	135,120,220,4x5,8x10,11x14	Daylight	Super Fine	Extremely High	59 or lower	ideal for a wide range of subject matters from product and outdoor to fashion and portraiture
Provia 400	RHP	400/27	Color Slide	135,120	Daylight	Fine	High	59 or lower	ideal for freezing fast action, stage shows, indoor/evening situations
Velvia	RVP	50/18	Color Slide	135,120,220,4x5,5x7,8x10,11x14	Daylight	Extremely Fine	Extremely High	59 or lower	Designed for fashion, product, art, landscape, and scientific; when precise rendering and enhanced color are important
NPS 160	NPS	160/23	Color Neg	135,120,220,4x5,8x10	Daylight	Extremely Fine	High	50 or lower	smooth natural rendition of skin tones, accurate realistic color reproduction
NPL 160	NPL	160/23	Color Neg	120,4x5,8x10	Tungsten	Extremely Fine	High	50 or lower	smooth natural rendition of skin tones, accurate realistic color reproduction
NPH 400	NPH	400/27	Color Neg	135,120,220	Daylight	Extremely Fine	High	50 or lower	designed for portrait/wedding photography and other commercial applications. Optimized skin tone reproduction
NHG II 800	NHG II	800/30	Color Neg	135,120,220	Daylight	Fine	High	50 or lower	indoor/outdoor portrait and wedding photography. Natural skin tones and excellent color saturation

